

## ABSTRACT OF THE DISCLOSURE

[0095] The invention includes fiber optic device, comprising a substrate comprising at least one groove comprising a first surface, a fiber stop a bonding material, and at least one fiber comprising a second surface in the at least one groove, wherein at least one of the first surface and the second surface has a surface energy that increases in the direction of the fiber stop and method for longitudinally locating an optical fiber stub in a groove wherein the fiber stub is pressed against a fiber stop by surface tension.